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3	3744	RNA near5 synthetic	USPAT; US-PGPUB; DERWENT	2003/01/16 12:46
4	20	(RNA near5 synthetic) and gene adj2 silencing	USPAT; US-PGPUB; DERWENT	2003/01/16 12:47

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NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
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now available on STN  
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NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
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NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on  
STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS  
  
NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

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=> s RNA (2a) synthetic  
L1 4857 RNA (2A) SYNTHETIC

=> s l1 and gene (2a) silencing  
L2 39 L1 AND GENE (2A) SILENCING

=> dup rem l2  
PROCESSING COMPLETED FOR L2  
L3 15 DUP REM L2 (24 DUPLICATES REMOVED)

=> d l3 1-15

L3 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2003 ACS

AN 2002:107534 CAPLUS  
 DN 136:162282  
 TI **Gene silencing** using mRNA-cDNA hybrids, methods,  
 compositions, and therapeutic uses thereof  
 IN Lin, Shi-Lung; Chuong, Cheng-Ming; Widelitz, Randall B.  
 PA University of Southern California, USA  
 SO PCT Int. Appl., 53 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002010374	A2	20020207	WO 2001-US24412	20010802
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				
	RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,				
	UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2002137709	A1	20020926	US 2001-920342	20010801
PRAI	US 2000-222479P	P	20000802		

L3 ANSWER 2 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:558139 BIOSIS  
 DN PREV200200558139  
 TI RNAi functions in cultured mammalian neurons.  
 AU Krichevsky, Anna M. (1); Kosik, Kenneth S.  
 CS (1) Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard  
 Medical School, Boston, MA, 02115: krichevsky@cnd.bwh.harvard.edu USA  
 SO Proceedings of the National Academy of Sciences of the United States of  
 America, (September 3, 2002) Vol. 99, No. 18, pp. 11926-11929.  
<http://www.pnas.org>. print.  
 ISSN: 0027-8424.  
 DT Article  
 LA English

L3 ANSWER 3 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
 1  
 AN 2002:461494 BIOSIS  
 DN PREV200200461494  
 TI Short RNA duplexes produced by hydrolysis with Escherichia coli RNase III  
 mediate effective RNA interference in mammalian cells.  
 AU Yang, Dun (1); Buchholz, Frank; Huang, Zhongdong; Goga, Andrei; Chen,  
 Chih-Ying; Brodsky, Frances M.; Bishop, J. Michael  
 CS (1) G. W. Hooper Foundation and Department of Microbiology and  
 Immunology,  
 University of California, San Francisco, CA, 94143-0552:  
 dyang20@itsa.ucsf.edu USA  
 SO Proceedings of the National Academy of Sciences of the United States of  
 America, (July 23, 2002) Vol. 99, No. 15, pp. 9942-9947.  
<http://www.pnas.org>. print.  
 ISSN: 0027-8424.  
 DT Article  
 LA English

L3 ANSWER 4 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE

2

AN 2002:507342 BIOSIS  
 DN PREV200200507342  
 TI Selective **silencing** of viral **gene** expression in  
 HPV-positive human cervical carcinoma cells treated with siRNA, a primer  
 of RNA interference.  
 AU Jiang, Ming; Milner, Jo (1)  
 CS (1) YCR P53 Research Group, Department of Biology, University of York,  
 York, YO10 5DD: ajm24@york.ac.uk UK  
 SO Oncogene, (5 September, 2002) Vol. 21, No. 39, pp. 6041-6048.  
<http://www.nature.com/onc>. print.  
 ISSN: 0950-9232.  
 DT Article  
 LA English

L3 ANSWER 5 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.  
 AN 2002:292429 BIOSIS  
 DN PREV200200292429  
 TI Post-transcriptional suppression of gene expression in Xenopus embryos by  
 small interfering RNA.  
 AU Zhou, Yuan; Ching, Yick-Pang; Kok, Kin Hang; Kung, Hsiang-Fu; Jin,  
 Dong-Yan (1)  
 CS (1) Department of Biochemistry, University of Hong Kong, 5 Sassoon Road,  
 Pokfulam, 3rd Floor, Li Shu Fan Building, Hong Kong: dyjin@hkucc.hku.hk  
 China  
 SO Nucleic Acids Research, (April 1, 2002) Vol. 30, No. 7, pp. 1664-1669.  
<http://nar.oupjournals.org/>. print.  
 ISSN: 0305-1048.  
 DT Article  
 LA English

L3 ANSWER 6 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
 3  
 AN 2002:364614 BIOSIS  
 DN PREV200200364614  
 TI **Gene silencing** using micro-RNA designed hairpins.  
 AU McManus, Michael T.; Petersen, Christian P.; Haines, Brian B.; Chen,  
 Jianzhu; Sharp, Phillip A. (1)  
 CS (1) Center for Cancer Research, Massachusetts Institute of Technology, 40  
 Ames Street, E17-526, Cambridge, MA, 02139: sharppa@mit.edu USA  
 SO RNA (New York), (June, 2002) Vol. 8, No. 6, pp. 842-850.  
<http://uk.cambridge.org/journals/rna/>. print.  
 ISSN: 1355-8382.  
 DT Article  
 LA English

L3 ANSWER 7 OF 15 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.DUPLICATE 4  
 AN 2002170523 EMBASE  
 TI Effective expression of small interfering RNA in human cells.  
 AU Paul C.P.; Good P.D.; Winer I.; Engelke D.R.  
 CS D.R. Engelke, Department of Biological Chemistry, University of Michigan,  
 Ann Arbor, MI 48109-0606, United States. engelke@umich.edu  
 SO Nature Biotechnology, (2002) 20/5 (505-508).  
 Refs: 14  
 ISSN: 1087-0156 CODEN: NABIF  
 CY United States  
 DT Journal; Article  
 FS 027 Biophysics, Bioengineering and Medical Instrumentation  
 LA English  
 SL English

L3 ANSWER 8 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
 5  
 AN 2002:310152 BIOSIS  
 DN PREV200200310152  
 TI Expression of small interfering RNAs targeted against HIV-1 rev  
 transcripts in human cells.  
 AU Lee, Nan Sook; Dohjima, Taikoh; Bauer, Gerhard; Li, Haitang; Li,  
 Ming-jie;  
 Ehsani, Ali; Salvaterra, Paul; Rossi, John (1)  
 CS (1) Division of Molecular Biology, Beckman Research Institute of the City  
 of Hope, Duarte, CA, 91010: jrossi@bricoh.edu USA  
 SO Nature Biotechnology, (May, 2002) Vol. 20, No. 5, pp. 500-505.  
 http://www.nature.com/nbt/. print.  
 ISSN: 1087-0156.  
 DT Article  
 LA English

L3 ANSWER 9 OF 15 MEDLINE  
 AN 2002261368 MEDLINE  
 DN 21996449 PubMed ID: 12000851  
 TI RNA interference in mammalian cells using siRNAs synthesized with T7 RNA  
 polymerase.  
 AU Donze Olivier; Picard Didier  
 CS Departement de Biologie Cellulaire, Universite de Geneve, Sciences III,  
 30  
 quai Ernest-Ansermet, CH-1211 Geneve 4, Switzerland.  
 SO NUCLEIC ACIDS RESEARCH, (2002 May 15) 30 (10) e46.  
 Journal code: 0411011. ISSN: 1362-4962.  
 CY England: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200205  
 ED Entered STN: 20020510  
 Last Updated on STN: 20020529  
 Entered Medline: 20020528

L3 ANSWER 10 OF 15 MEDLINE DUPLICATE 6  
 AN 2002354715 MEDLINE  
 DN 22092612 PubMed ID: 12097900  
 TI RNA interference in adult mice.  
 AU McCaffrey Anton P; Meuse Leonard; Pham Thu-Thao T; Conklin Douglas S;  
 Hannon Gregory J; Kay Mark A  
 CS Department of Pediatrics, Stanford University School of Medicine,  
 Stanford, California 94305-5208, USA.  
 SO NATURE, (2002 Jul 4) 418 (6893) 38-9.  
 Journal code: 0410462. ISSN: 0028-0836.  
 CY England: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200207  
 ED Entered STN: 20020707  
 Last Updated on STN: 20020731  
 Entered Medline: 20020730

L3 ANSWER 11 OF 15 LIFESCI COPYRIGHT 2003 CSA  
 AN 2002:68786 LIFESCI  
 TI RNA interference in mammalian cells using siRNAs synthesized with T7 RNA

polymerase  
AU Donze, O.; Picard, D.  
CS Departement de Biologie Cellulaire, Universite de Geneve, Sciences III,  
30  
quai Ernest-Ansermet, CH-1211 Geneve 4, Switzerland; E-mail:  
picard@cellbio.unige.ch  
SO Nucleic Acids Research [Nucleic Acids Res.], (20020515) vol. 30, no. 10,  
e46.  
ISSN: 0305-1048.  
DT Journal  
FS N  
LA English  
SL English

L3 ANSWER 12 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS  
INC.DUPLICATE

7  
AN 2002:57823 BIOSIS  
DN PREV200200057823  
TI Functional anatomy of siRNAs for mediating efficient RNAi in Drosophila  
melanogaster embryo lysate.  
AU Elbashir, Sayda M.; Martinez, Javier; Patkaniowska, Agnieszka; Lendeckel,  
Winfried; Tuschl, Thomas (1)  
CS (1) Department of Cellular Biochemistry, Max-Planck-Institute for  
Biophysical Chemistry, Am Fassberg 11, D-37077, Goettingen:  
ttuschl@mpibpc.gwdg.de Germany  
SO EMBO (European Molecular Biology Organization) Journal, (December 3,  
2001)  
Vol. 20, No. 23, pp. 6877-6888. <http://www.emboj.org/>. print.  
ISSN: 0261-4189.  
DT Article  
LA English

L3 ANSWER 13 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS  
INC.DUPLICATE

8  
AN 2002:112883 BIOSIS  
DN PREV200200112883  
TI Short 5'-phosphorylated double-stranded RNAs induce RNA interference in  
Drosophila.  
AU Boutla, Alexandra; Delidakis, Christos; Livadaras, Ioannis; Tsagris,  
Mina;  
Tabler, Martin (1)  
CS (1) Institute of Molecular Biology and Biotechnology, Foundation for  
Research and Technology, GR-71110, Heraklion, Crete: tabler@imbb.forth.gr  
Greece  
SO Current Biology, (13 November, 2001) Vol. 11, No. 22, pp. 1776-1780.  
print.  
ISSN: 0960-9822.  
DT Article  
LA English

L3 ANSWER 14 OF 15 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS  
INC.DUPLICATE

9  
AN 2001:356461 BIOSIS  
DN PREV200100356461  
TI Inhibition of HIV-1 gene expression by novel macrophage-tropic DNA  
enzymes  
targeted to cleave HIV-1 TAT/Rev RNA.

AU Unwalla, Hoshang; Banerjea, Akhil C. (1)  
CS (1) Laboratory of Virology, National Institute of Immunology, Aruna Asaf  
Ali Marg, JNU Campus, New Delhi, 110067: akhil@nii.res.in India  
SO Biochemical Journal, (1 July, 2001) Vol. 357, No. 1, pp. 147-155. print.  
ISSN: 0264-6021.  
DT Article  
LA English  
SL English

L3 ANSWER 15 OF 15 AGRICOLA

AN 93:12086 AGRICOLA

DN IND93001566

TI Assaying synthetic ribozymes in plants: high-level expression of a  
functional hammerhead structure fails to inhibit target gene activity in  
transiently transformed protoplasts.

AU Mazzolini, L.; Axelos, M.; Lescure, N.; Yot, P.

CS CNRS, INRA, Castanet-Tolosan, France

AV DNAL (QK710.P62)

SO Plant molecular biology : an international journal on molecular biology,  
biochemistry and genetic engineering, Nov 1992. Vol. 20, No. 4. p.

715-731

Publisher: Dordrecht : Kluwer Academic Publishers.

ISSN: 0167-4412

NTE Includes references.

DT Article

FS Non-U.S. Imprint other than FAO

LA English

=> s RNA (s) synthetic (2a) transcript?(2a) silencing

L4 0 RNA (S) SYNTHETIC (2A) TRANSCRIPT?(2A) SILENCING

=> s RNA (s) synthetic (2a) transcriptional(w) silencing

L5 0 RNA (S) SYNTHETIC (2A) TRANSCRIPTIONAL(W) SILENCING

=> s RNA (s) synthetic

L6 19072 RNA (S) SYNTHETIC

=> s l6 and transcript?

L7 6631 L6 AND TRANSCRIPT?

=> s l7 and inactiv?

L8 215 L7 AND INACTIV?

=> s l8 and silencing

L9 6 L8 AND SILENCING

=> dup rem l9

PROCESSING COMPLETED FOR L9

L10 2 DUP REM L9 (4 DUPLICATES REMOVED)

=> d l10 1-2 abs ti au so

L10 ANSWER 1 OF 2 MEDLINE

AB Rrp5p is the only protein so far known to be required for the processing  
of yeast pre-rRNA at both the early sites A0, A1 and A2 leading to 18S  
rRNA and at site A3, the first step specific for the pathway leading to  
5.8S/25S rRNA. Previous in vivo mutational analysis of Rrp5p demonstrated  
that the first 8 of its 12 S1 RNA-binding motifs are involved in  
the formation of the 'short' form of 5.8S rRNA (5.8S(S)), which is the



predominant species under normal conditions. We have constructed two strains in which the genomic RRP5 gene has been replaced by an rrp5 deletion mutant lacking either S1 motifs 3-5 (rrp5-Delta3) or 5-8 (rrp5-Delta4). The first mutant synthesizes almost exclusively 5.8S(L) rRNA, whereas the second one still produces a considerable amount of the 5.8S(S) species. Nevertheless, both mutations were found to block cleavage at site A3 completely. Instead, a novel processing event occurs at a site in a conserved stem-loop structure located between sites A2 and A3, which we have named A4. A **synthetic** lethality screen using the rrp5-Delta3 and rrp-Delta4 mutations identified the REX4 gene, which encodes a non-essential protein belonging to a class of related yeast proteins that includes several known 3'-->5' exonucleases. **Inactivation** of the REX4 gene in rrp5-Delta3 or rrp-Delta4 cells abolished cleavage at A4, restored cleavage at A3 and returned the 5.8S(S):5.8S(L) ratio to the wild-type value. The sl phenotype of the rrp5Delta/rex4(-) double mutants appears to be due to a severe disturbance in ribosomal subunit assembly, rather than pre-rRNA processing. The data provide direct evidence for a crucial role of the multiple S1 motifs of Rrp5p in ensuring the correct assembly and action of the processing complex responsible for cleavage at site A3. Furthermore, they clearly implicate Rex4p in both pre-rRNA processing and ribosome assembly, even though this protein is not essential for yeast.

TI Deletions in the S1 domain of Rrp5p cause processing at a novel site in ITS1 of yeast pre-rRNA that depends on Rex4p.

AU Eppens Noor A; Faber Alex W; Rondaij Mariska; Jahangir Roshan S; van Hemert Saskia; Vos Jan C; Venema Jaap; Raue Hendrik A

SO NUCLEIC ACIDS RESEARCH, (2002 Oct 1) 30 (19) 4222-31.  
Journal code: 0411011. ISSN: 1362-4962.

L10 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
1

AB Nucleolar dominance is an epigenetic phenomenon in which one parental set of ribosomal **RNA** (rRNA) genes is silenced in an interspecific hybrid. In natural Arabidopsis suecica, an allotetraploid (amphidiploid) hybrid of Arabidopsis thaliana and Cardaminopsis arenosa, the A. thaliana rRNA genes are repressed. Interestingly, A. thaliana rRNA gene **silencing** is variable in **synthetic** Arabidopsis suecica F1 hybrids. Two generations are needed for A. thaliana rRNA genes to be silenced in all lines, revealing a species-biased direction but stochastic onset to nucleolar dominance. Backcrossing **synthetic** A. suecica to tetraploid A. thaliana yielded progeny with active A. thaliana rRNA genes and, in some cases, silenced C. arenosa rRNA genes, showing that the direction of dominance can be switched. The hypothesis that naturally dominant rRNA genes have a superior binding affinity for a limiting **transcription** factor is inconsistent with dominance switching. **Inactivation** of a species-specific **transcription** factor is argued against by showing that A. thaliana and C. arenosa rRNA genes can be expressed transiently in the other species. Transfected A. thaliana genes are also active in A. suecica protoplasts in which chromosomal A. thaliana genes are repressed. Collectively, these data suggest that nucleolar dominance is a chromosomal phenomenon that results in coordinate or cooperative **silencing** of rRNA genes.

TI Gene dosage and stochastic effects determine the severity and direction of

uniparental ribosomal RNA gene **silencing** (nucleolar dominance)  
in Arabidopsis allopolyploids.

AU Chen, Z. Jeffrey; Comai, Luca; Pikaard, Craig S. (1)  
SO Proceedings of the National Academy of Sciences of the United States of  
America, (Dec., 1998) Vol. 95, No. 25, pp. 14891-14896.  
ISSN: 0027-8424.

=>

---Logging off of STN---

=>

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=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	64.62	64.83

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